



SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC **MOL-LUB Ltd.**

Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 1/(13)

SECTION 1 Identification of the mixture/substance and of the company/undertaking

1.1 Product identifier:

MOL Dynamic Gold NG 0W-20 synthetic motor oil

1.2 Relevant identified uses of the mixture or substance and uses advised against

Relevant identified uses: synthetic motor oil

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Distribution and Service Ltd.

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 34 526 330 / +36 34 526 391

E-mail: kenoanyag@mol.hu

Request SDS of:

MOL-LUB Lubricant Production Distribution and Service Ltd.

Customer Service Center

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 80 201 296 / +36 34 348 010

Responsible for SDS:

MOL-LUB Ltd. Csaba Horváth, head of SD, HSE & Business Support

Phone: +36 34 526 343; Mobile: +36 20 474 2644

e-mail: csahorvath@mol.hu

1.4 Emergency telephone number

Emergency telephone (07-15²⁰ h): +36 34 526 210 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyváradi tér 2.)

Tel.: +36 80 201 199 (0-24 h, free number).

National Health Toxicological Information Service:

SECTION 2 Hazards identification

2.1 Classification of the mixture or substance

Hazard Class and Category: Hazard statement:

Not classified.

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SAFETY DATA SHEET

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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 2/(13)

2.2 Label elements

Product identification: Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Hazardous components: -

GHS Pictogram: Not required.

Signal word: Not required.

Hazard statement:

not required

Supplemental hazard information:

EUH208 Contains Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) and Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Precautionary statements – General: -

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements – Response: -

Precautionary statements – Storage: -

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 3/(13)

SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of refined mineral base oils and hydrotreated neutral oil containing additives.

Component(s) / Hazardous component(s):

| Name | EC number | CAS number | Hazard classes and cat. | Hazard statements | Conc. % (m/m) |
|---------------------------------------------------------------------------------------------------|-----------|-------------|-------------------------|-------------------|---------------|
| Mineral oil raffinate*,** | mixture | | - (Note L) | - | max. 25 |
| Dec-1-ene, homopolymer, hydrogenated REACH Registr. Nr.: 01-2119486452-34 | 500-183-1 | 68037-01-4 | Asp. Tox. 1 | H304 | max. 25 |
| Distillates (petroleum), hydrotreated heavy paraffinic REACH Registr. Nr.: 01-2119484627-25 | 265-157-1 | 64742-54-7 | Asp. Tox. 1 (Note L) | H304 | max. 25 |
| Dec-1-ene, homopolymer, hydrogenated REACH Registr. Nr.: 01-2119486452-34 | 500-183-1 | 68037-01-4 | - | - | max. 20 |
| Bis(nonylphenyl)amine REACH Registr. Nr.: 01-2119488911-28 | 253-249-4 | 36878-20-3 | Aquatic Chronic 4 | H413 | max. 2.0 |
| Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) | 601-337-1 | 114959-46-5 | Skin Sens. 1B | H317 | max. 0.8 |
| Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts | | 722503-68-6 | Skin Sens. 1B | H317 | max. 0.8 |

*: with exposure limit

** The mineral oil mixture contains one or more of the following:

REACH Registr. Nr.: 01-2119484627-25

REACH Registr. Nr.: 01-2119471299-27

REACH Registr. Nr.: 01-2119487077-29

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.



SAFETY DATA SHEET

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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 4/(13)

SECTION 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In case of persistent irritation, get medical attention.

Ingestion: If swallowed, give water. **Do not** induce vomiting. Get medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment need

Not required.

SECTION 5 Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the mixture or substance

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide, sulphur oxide, phosphor oxides various hydrocarbons and soot can be formed.



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 5/(13)

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil

Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be remove. Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping. Dispose of according to local regulations.

On water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Notify local authorities according to regulations.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants and flammable liquids.

Keep away from radiant heat and open flame.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Ensure washing facilities after working hours and before breaks.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: not known.



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 6/(13)

- 7.2 Conditions for safe storage, including any incompatibilities
Storage facilities must comply with regulations for storing of flammable liquids.
Store in dry, well ventilated place in original, closed containers.
Keep away from radiant heat, open flame and strong oxidizing agents.
Storage temperature: max. 40°C.

- 7.3 Specific end use(s)
Synthetic motor oil.

SECTION 8 Exposure controls / personal protection

Engineering control measures:
Not required.

- 8.1 Control parameters:

Mineral oil mist: TWA: **5 mg/m³**; STEL: 10 mg/m³, for oil mist, vapour excluded (ACGIH).

Method of testing, recommended: NIOSH 5026

- 8.2 Exposure controls

Personal protection:

Respiratory protection: Under normal conditions not required. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended.

Hand protection: Oil resistant gloves (EN 374, Breakthrough time 480 min) (e.g. nitrile rubber – minimal thickness 0.33 mm).

Note: Manufacturer's directions for use and the conditions of application should be observed.

Eye protection: Where splashing is possible, wear safety glasses (EN 166).

Skin protection: Protective clothing (oil resistant).

Other special: No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

Appearance:

| | |
|-----------------|----------------|
| Physical state: | liquid |
| Colour: | bright, clear |
| Odour: | characteristic |



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 8/(13)

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

| | | | |
|---------|---------------------------|--------------|-----------------------|
| Oral: | LD ₅₀ (rat) | > 2000 mg/kg | (based on components) |
| Dermal: | LD ₅₀ (rabbit) | > 2000 mg/kg | (based on components) |

Distillates (petroleum), hydrotreated heavy paraffinic

| | | | |
|-------------|---------------------------|--------------------------|----------|
| Oral: | LD ₅₀ (rat) | > 2000 mg/kg | OECD 401 |
| Dermal: | LD ₅₀ (rabbit) | > 2000 mg/kg | OECD 402 |
| Inhalation: | LC ₅₀ (rat) | > 5000 mg/m ³ | OECD 403 |

Dec-1-ene, homopolymer, hydrogenated

| | | | |
|-------------|---------------------------|--------------|-------------|
| Oral: | LD ₅₀ (rat) | > 5000 mg/kg | |
| Dermal: | LD ₅₀ (rabbit) | > 2000 mg/kg | |
| Inhalation: | LC ₅₀ (rat) | > 5.2 mg/L | (dust, fog) |

Acute toxicity: irritation

| | |
|-------|------------------------------------|
| Skin: | not irritant (based on components) |
| Eye: | not irritant (based on components) |

Respiratory or skin sensitisation: not sensitising (based on components), but may produce an allergic reaction.

Other information, specific effects:

Note L: The classification as a carcinogen need not apply according to 1272/2008/EC, because it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

| | |
|-------------------------|------------------------------------------------------------------------|
| Germ cell mutagenicity: | not known, resp. not mutagen (based on components) |
| Carcinogenicity: | not known, resp. not carcinogen (based on components) |
| Reproductive toxicity: | not known, resp. no reproduction-damaging effect (based on components) |
| STOT-single exposure: | not classified |
| STOT-repeated exposure: | not classified |
| Aspiration hazard: | not classified |



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according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC **MOL-LUB Ltd.**

Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 9/(13)

SECTION 12 Ecological information

| | | | | |
|------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|
| 12.1 | Toxicity | No data for the product. | | |
| | Distillates (petroleum), hydrotreated heavy paraffinic | | | |
| | Fish: | >1000 mg/L | 96 h | (OECD 203) |
| | Daphnia: | >100 mg/L | 48 h | (OECD 202) |
| | Algae: | >100 mg/L | 72 h | (OECD 201) |
| | Dec-1-ene, homopolymer, hydrogenated | | | |
| | Fish (Pimephales promelas): | LC ₅₀ | >750 mg/L | 96 h |
| | Daphnia (Daphnia magna): | EL ₅₀ | >1000 mg/L | 48 h (OECD 202) |
| | Algae: | EC ₅₀ | >1000 mg/L | 96 h |
| 12.2 | Persistence and degradability | | | |
| | Biodegradability: | Hydrocarbons are inherently degradable. | | |
| 12.3 | Bioaccumulative potential | No data available. | | |
| 12.4 | Mobility | | | |
| | Mobility in soil | Absorbs in soil. | | |
| | Mobility in water: | Floats on water. | | |
| 12.5 | Results of PBT and vPvB assessment | Does not contain PBT and vPvB substances. | | |
| 12.6 | Other adverse effects | | | |
| | Heavy metal content: | None. | | |
| | PCT, PCB and other chlorinated hydrocarbons: | None. | | |
| | Environmental effects: | Large spills may be hazardous to the environment. Spills may form a film on water surfaces causing impaired oxygen transfer. | | |
| | Water hazard class (German): | WGK 1 (Classification by AwSV) | | |

SECTION 13 Disposal considerations

| | | |
|------|-------------------------------------------------------------------------|--|
| 13.1 | Waste treatment methods | |
| | Product disposal: | |
| | Wastes of the product or used oil should be treated as hazardous waste. | |
| | Waste Identification Code: 13 02 05* | |
| | Mineral-based non-chlorinated engine, gear and lubricating oils. | |



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 10/(13)

Waste Identification Code: 13 02 06*
Synthetic engine, gear and lubricating oils.

Disposal must be in compliance with national and local regulations.

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14 **Transport information**

Land transport:

Road/ Railway ADR/RID: Not classified.

- | | |
|------------------------------------|-----------------|
| 14.1 UN number: | Not classified. |
| 14.2 UN proper shipping name: | Not classified. |
| 14.3 Transport hazard class(es): | Not classified. |
| 14.4 Packing group: | Not classified. |
| 14.5 Environmental hazards: | Not classified. |
| 14.6 Special precautions for user: | Not classified. |

Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not apply to the product.

Air transport: ICAO / IATA: Not apply to the product.



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 11/(13)

SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture.
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.
Seveso category: not classified.
- 15.2 Chemical safety assessment.
not available

SECTION 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)
Not classified.

Source of data presented in this material safety data sheet:
Test results of this product
Material safety data sheets of product's components
1272/2008/EC regulation, Annex XVII. of REACH
Relevant Hungarian and EU regulations

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

| | |
|-------------------|----------------------------------------------------------|
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Skin Sens. 1B | Respiratory/skin sensitization Category 1B |
| Aquatic Chronic 4 | Hazardous to the aquatic environment, Chronic Category 4 |



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 12/(13)

Legend:

| | |
|-----------|-------------------------------------------------------------------------------------------------|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BOD | Biological Oxygen Demand |
| Bw | Body Weight |
| C&L | Classification and Labelling |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging (1272/2008/EC) |
| CMR | Carcinogenic, Mutagenic or toxic to Reproduction |
| COD | Chemical Oxygen Demand |
| CSA | Chemical Safety Assessment |
| CSR | Chemical Safety Report |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| ECHA | European Chemicals Agency |
| Ex | Effective Concentration x% |
| ErC50 | EC50 in terms of reduction of growth rate |
| Edx | Effective Dose x% |
| EC | European Community |
| EC number | European Community number |
| ELINCS | European List of Notified Chemical Substances |
| ES | Exposure Scenario |
| ESIS | European Chemical Substances Information System |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LCx | Lethal Concentration x% |
| LDx | Lethal Dose x% |
| LOAEC | Lowest Observed Adverse Effect Concentration |
| LOAEL | Lowest Observed Adverse Effect Level |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest Observed Effect Level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| NLP | No-Longer Polymer |
| NOAEL | No Observed Adverse Effect Level |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | Persistent Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts/million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |



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Trade name: **MOL Dynamic Gold NG 0W-20 synthetic motor oil**

Version: 2 Latest revision: 09. 06. 2020 Date of issue: 26. 03. 2020 Page: 13/(13)

| | |
|------|-------------------------------------------------------------------------------------------------|
| RID | Regulations concerning the International carriage of Dangerous Goods by Rail |
| SVHC | Substance of Very High Concern |
| UVCB | substance of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bio-accumulative |

Revision Indicators:

| Section | Subject of change | Date | Version |
|---------|-------------------------------------------------------------|--------------|---------|
| 1 | Change the name (MOL Dynamic Gold 0W-20 synthetic motor oil | 09. 06. 2020 | 2 |